

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 17+30 to 19+00**Date: 11/04/2005**

<div>Dredging</div> <div>Load Number</div> <div>1141</div> <div>Tidal Stage</div> <div>Ebb</div> <div>Dredge State:</div> <div>Overflow through skimmers only</div> <div>Weather:</div> <div>Cloudy</div> <div>Wind:</div> <div>5-10 kts</div> <div>Seas:</div> <div>0-1'</div> <div>Disposal location</div> <div>Columbia River RM 17.5 & 18.8</div>	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	20.9	7:20:31	7379609.42	948500.21	8.4	
	DR-2	20.3	7:22:05	7378942.66	947985.64	15.7	10.8
	DR-2R1	21.1	7:22:09	7378925.80	947986.32	16.8	11.1
	DR-4	20.7	7:23:35	7378366.50	947729.02	14.9	
	DR-4R1	20.9	7:23:39	7378362.04	947723.12	14.1	
	DR-3	19.6	7:26:10	7379662.94	948571.06	7.3	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 taken out of the plume on port side.							
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						

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Disposal Load Number	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
1141	DSP-1	20.2	7:37:02	7377166.88	946986.57	8.2	
Tidal Stage	DSP-2	19.5	7:45:44	7377388.60	946935.04	16.5	11.3
Ebb	DSP-2R1	19.1	7:45:48	7377380.17	946935.38	13.6	11.3
Dredge State:	DSP-4	20.3	7:46:57	7377800.19	947088.77	30.8	
Split Hull	DSP-4R1	20.6	7:47:02	7377800.19	947088.77	23.1	
Weather:	DSP-3	20.1	7:48:33	7377015.11	946992.70	9.6	
Clear	DSP-3R1	20.2	7:48:39	7377010.89	946992.87	10.0	
Wind:							
5-10 kts							
Seas:							
0-1'							
Disposal location							
Columbia River RM 17.5 & 18.8							

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-4 exceeded 10% over background, taken in the plume,	Re-test DSP-4R1 was taken.
DSP-3 exceeded 10% over background, taken out of the plume,	Re-test DSP-3R1 was taken.
on starboard side.	The disposal ended and the dredge moved away from the area.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel	OR WA WA	OR, WA Not Required Not Required
DSP-2	100' Down Current		
DSP-3	150' Radially from point of dredge (Port or Starboard)		
DSP-4	900' Down Current from point of dredging		
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

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Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 17+30 to 19+00**Date: 11/04/2005**

Disposal Load Number 1142 Tidal Stage Flood Dredge State: Split Hull Weather: Overcast, Raining Wind: 5-10 kts Seas: 3-4' Disposal location Columbia River RM 17.5 & 18.8	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DSP-1	20.3	11:37:42	7372840.52	941206.01	3.3	
	DSP-2	18.8	11:43:58	7373876.10	945288.56	15.2	11.4
	DSP-2R1	19.4	11:44:02	7373876.10	945288.56	12.6	11.3
	DSP-4	19.1	11:45:20	7373849.29	945356.57	3.4	
	DSP-3	21.9	11:47:07	7375934.50	946063.01	3.9	
	DSP-3R1	22.0	11:47:11	7375942.94	946062.67	3.7	

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-3 exceeded 10% over background, taken out of the plume, on port side	Re-test DSP-3R1 was taken.
	The disposal ended and the dredge moved away from the area.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel	OR WA WA	OR, WA Not Required Not Required
DSP-2	100' Down Current		
DSP-3	150' Radially from point of dredge (Port or Starboard)		
DSP-4	900' Down Current from point of dredging		
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - 20+10 to 21+00

Date: 11/04/2005

<div>Dredging</div> <div>Load Number</div> <div>1143</div> <div>Tidal Stage</div> <div>Flood</div> <div>Dredge State:</div> <div>Overflow through skimmers only</div> <div>Weather:</div> <div>Overcast, Raining</div> <div>Wind:</div> <div>5-10 kts</div> <div>Seas:</div> <div>0-1'</div> <div>Disposal location</div> <div>Columbia River RM 17.5 & 18.8</div>	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	20.7	12:07:12	7379416.23	948526.24	5.5	
	DR-2	21.1	12:08:34	7380059.44	948561.19	21.5	11.1
	DR-2R1	21.0	12:08:38	7380068.12	948566.92	16.8	11.1
	DR-4	22.9	12:10:33	7380712.90	948851.25	11.7	
	DR-4R1	22.3	12:10:37	7380717.36	948857.15	9.8	
	DR-3	19.1	12:13:59	7379514.04	947913.97	5.1	
	DR-3R1	19.6	12:14:03	7379522.47	947913.63	5.3	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 exceeded 10% over background, taken out of plume on starboard side.				Re-test DR-3R1 was taken.			
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						

Project Name/Location:				Contract Number: W9127N-05-C-0012			
Columbia River Channel Improvement - RM 17+30 to 19+00							
Date: 11/04/2005							
Dredging Load Number 1145 Tidal Stage Ebb Dredge State: Overflow through skimmers only Weather: Overcast, Raining Wind: 5-10 kts Seas: 1-2' Disposal location Columbia River RM 17.5 & 18.8	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	20.2	14:39:23	7379176.84	947824.12	3.2	
	DR-2	19.3	14:42:06	7378544.24	947843.52	26.1	11.5
	DR-2R1	20.3	14:42:09	7378544.49	947849.60	21.2	11.4
	DR-4	19.4	14:46:04	7378082.39	947594.47	21.9	
	DR-4R1	19.2	14:46:08	7378082.39	947594.47	17.3	
	DR-3	19.5	14:49:01	7379293.44	948622.43	4.4	
	DR-3R1	19.6	14:49:03	7379297.90	948628.34	4.4	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 exceeded 10% over background, taken out of plume, on port side.				Re-test DR-3R1 was taken.			
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 17+30 to 19+00

Date: 11/04/2005

<div>Dredging</div> <div>Load Number</div> <div>1146</div> <div>Tidal Stage</div> <div>Ebb</div> <div>Dredge State:</div> <div>Overflow through skimmers only</div> <div>Weather:</div> <div>Overcast</div> <div>Wind:</div> <div>5-10 kts</div> <div>Seas:</div> <div>0-1'</div> <div>Disposal location</div> <div>Columbia River RM 17.5 & 18.8</div>	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	21.0	16:32:23	7378524.36	948397.91	3.0	
	DR-3	21.2	16:38:37	7378643.65	947900.35	4.2	
	DR-3R1	22.6	16:38:42	7378643.89	947906.43	3.9	
	DR-2	20.4	16:39:50	7378493.79	948058.48	23.9	11.2
	DR-2R1	20.1	16:39:54	7378481.14	948058.99	22.7	11.3
	DR-4	20.1	16:41:33	7377732.77	948034.41	24.4	
	DR-4R1	20.1	16:41:37	7377724.34	948034.75	19.7	
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 exceeded 10% over background, taken in the plume.				Re-test DR-4R1 was taken.			
DR-3 exceeded 10% over background, taken out of plume, on port side.				Re-test DR-3R1 was taken.			
				The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.			
Sample Point Key	All Tests Conducted With YSI 6600					Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel					OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current						
DR-3	300' Radially from point of dredge (Port or Starboard)						
DR-4	900' Down Current from point of dredging						
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point						